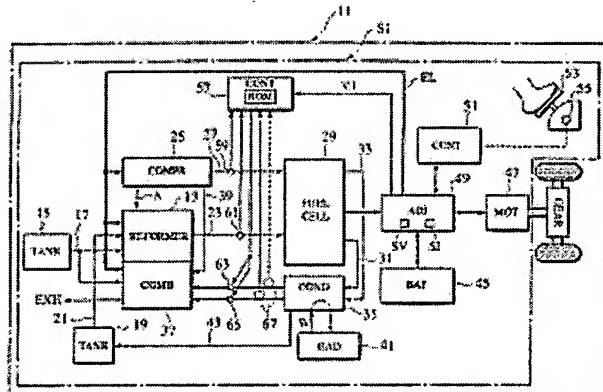


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Fuel cell system comprises a water tank (19), a reformer (13), a fuel cell (29), a condenser (35), a waste gas temperature detector which measures the temperature of the waste gas from the condenser, and an operating pressure control device. This device calculates an equilibrium operating pressure of the fuel cell system, at which water flowing into and out of the system are in equilibrium. An Independent claim is also included for a process for controlling the operational pressure of a fuel cell system comprising detecting the temperature of the exhaust gas from the condenser, calculating the equilibrium operational pressure of the fuel cell, calculating operational load of the maximum degree of operation, and controlling the operational pressure of the fuel cell system. Preferred Features: The system further comprises a combustor (37) which uses the reformed gas to obtain the heat of combustion for use as a heat source for the reformer; and a water level detector in the tank.



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